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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20030217195 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 11

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030217195

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030217195 A1

TITLE: Method and apparatus for managing host-based data services using CIM

providers

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay Nashua ИН US DaCosta, Jillian I. Nashua NH US Cao, Lanshan Andover MA US Pokigo, Roberta A. Billerica MA US

US-CL-CURRENT: 719/330; 709/223, 719/321

Full Title Citation Front Review	Classification Date	Reference Sequenc	Claims KMC Draw, De

☐ 2. Document ID: US 20030204557 A1

L5: Entry 2 of 11

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204557 A1

TITLE: Method and apparatus for managing remote data replication using CIM

providers in a distributed computer system

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US

Cao, Lanshan

Andover

MA

US

Pokigo, Roberta A.

Billerica

MA

US

US-CL-CURRENT: <u>709/202</u>; <u>707/204</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawu De
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☐ 3. Document ID: US 20030172088 A1

L5: Entry 3 of 11

File: PGPB

Sep 11, 2003

RULE-47

PGPUB-DOCUMENT-NUMBER: 20030172088

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030172088 A1

TITLE: Method and apparatus for managing a data imaging system using CIM providers

in a distributed computer system

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY Mandal, Chhandomay Nashua DaCosta, Jillian I. Nashua Cao, Lanshan France, Jonathan C. Du, Yuantai

Pokigo, Roberta A.

Andover MΆ US Somerville MA US Nashua NH US Billerica MA US

STATE

NH

NH

COUNTRY

US

US

US-CL-CURRENT: 707/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draws De

☐ 4. Document ID: US 20030105840 A1

L5: Entry 4 of 11

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105840

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030105840 A1

TITLE: Method and apparatus for managing configuration information in a distributed

computer system

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US

Musante, Mark J. US Westford MA

Wagener, Peter J.

Somerville

MA

US

Pokigo, Roberta A.

Billerica

MA

US

US-CL-CURRENT: 709/220; 709/223

Full	Title	Citation	Front	Review Cl	lassification	Date	Reference	Sequences	Attachments	Claims	KAMC	Draws De

☐ 5. Document ID: US 20030088713 A1

L5: Entry 5 of 11

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088713

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030088713 A1

TITLE: Method and apparatus for managing data caching in a distributed computer

system

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME

CITY Nashua STATE COUNTRY RULE-47

Mandal, Chhandomay

Westford

NH US

Musante, Mark J. Wagener, Peter J.

Somerville

MA MA

MA

US US

US

DaCosta, Jillian I.

Nashua

Andover

NH US

Pokigo, Roberta A. Goosey, Melora L.

Billerica

MΑ US

US-CL-CURRENT: 719/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Seguences	Attachments	Claime	KOMC	Draw, De
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☐ 6. Document ID: US 20030084198 A1

L5: Entry 6 of 11

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084198

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084198 A1

TITLE: Method and apparatus for managing data services in a distributed computer

system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Mandal, Chhandomay

Nashua

NH

COUNTRY

Musante, Mark J.

Westford

MA

US US Wagener, Peter J.

Somerville Billerica MA

US

Pokigo, Roberta A. Goosey, Melora L.

Andover

MA MA US US

US-CL-CURRENT: 719/316

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw, De

☐ 7. Document ID: US 20030084116 A1

L5: Entry 7 of 11

File: PGPB

May 1, 2003

RULE-47

PGPUB-DOCUMENT-NUMBER: 20030084116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084116 A1

TITLE: Method and apparatus for discovering data services in a distributed computer

system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

Pokigo, Roberta A.

NAME CITY STATE COUNTRY Musante, Mark J. Westford ΜA US Mandal, Chhandomay Nashua NH US Newman, Howard A. Arlington MA US Wagener, Peter J. Somerville MA US Goosey, Melora L. Andover US MA

Billerica

US-CL-CURRENT: 709/217; 709/201, 709/203

FUI	Title	Citation	Front	Regience	Classification	Date	Potoronoo		Attachments	Claime	KOME	Drawe De
	11014	ORDRAN	1 15016	MEMIEW	Classification	vale	Neterence	Seducines	Augumente	Otalisis	Leanter.	V 13000 VD

□ 8. Document ID: US 20030061399 A1

L5: Entry 8 of 11

File: PGPB

MΑ

US

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061399

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061399 A1

TITLE: Method and apparatus for managing data volumes in a distributed computer

system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Wagener, Peter J.

Somerville

MA

US

Musante, Mark J.	Westford	MA	US
Mandal, Chhandomay	Nashua	NH	US
Goosey, Melora L.	Andover	MA	US
Pokigo, Roberta A.	Billerica	MA	US
Quill, George J.	Clinton	MA	US
Gratzer, Peter L.	Broomfield	CO	US
DaCosta, Jillian I.	Nashua	NH	US
France, Jonathan C.	Somerville	MA	US

US-CL-CURRENT: <u>719/321</u>; <u>719/328</u>

Full Title Citation Front Revie	w Classification Date Reference Sequences .	Attachments Claims KWC Draw. De

☐ 9. Document ID: US 2	20030061366 A1	
L5: Entry 9 of 11	File: PGPB	Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061366

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061366 A1

TITLE: Method and apparatus for managing data imaging in a distributed computer

system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

CITY	STATE	COUNTRY	RULE-47
Westford	MA	US	
Nashua	NH	US	
Somerville	MA	US	
Andover	MA	US	
Andover	MA	US	
Billerica	MA	US	
	Westford Nashua Somerville Andover Andover	Westford MA Nashua NH Somerville MA Andover MA Andover MA	Westford MA US Nashua NH US Somerville MA US Andover MA US Andover MA US

US-CL-CURRENT: <u>709/230</u>; <u>709/237</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De
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L5: E	Entry	10 of	11				File: P	GPB		Feb	13,	2003

PGPUB-DOCUMENT-NUMBER: 20030033327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030033327 A1

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay US Nashua NH Wagener, Peter J. Somerville MA US Musante, Mark J. Westford MA US DaCosta, Jillian I. Nashua ΝН US Zhang, Lanshan Andover MA US Pokigo, Roberta A. Billerica MΑ US

US-CL-CURRENT: 707/204

Full	Title Citation	Front F	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC D	ravu Die

☐ 11. Document ID: US 6772178 B2

L5: Entry 11 of 11

File: USPT

Aug 3, 2004

US-PAT-No: 6772178

DOCUMENT-IDENTIFIER: US 6772178 B2

TITLE: Method and apparatus for managing remote data replication in a distributed

computer system

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME STATE CITY ZIP CODE COUNTRY Mandal; Chhandomay Nashua NH Wagener; Peter J. Somerville MA Musante; Mark J. Westford DaCosta; Jillian I. Nashua NH Zhang; Lanshan Andover MA Pokigo; Roberta A. Billerica MA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Sun Microsystems, Inc. Santa Clara CA 02

APPL-NO: 09/ 917145 [PALM]
DATE FILED: July 27, 2001

INT-CL: [07] $\underline{G06}$ \underline{F} $\underline{17/00}$

US-CL-ISSUED: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223 US-CL-CURRENT: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223

FIELD-OF-SEARCH: 707/10, 707/200, 707/204, 709/226, 709/201, 709/203, 709/217,

709/220, 709/223, 709/316, 711/162, 711/203, 714/5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
6002085	December 1999	Utsumi et al.	174/28
6058401	May 2000	Stamos et al.	707/201
6453326	September 2002	Parham et al.	707/204
6571232	May 2003	Goldberg et al.	707/2
6625613	September 2003	Thompson	707/102
2003/0014432	January 2003	Teloh et al.	707/204
2003/0014433	January 2003	Teloh et al.	707/204
2003/0014523	January 2003	Teloh et al.	709/226
2003/0033327	February 2003	Mandal et al.	707/204
2003/0061399	March 2003	Wagener et al.	709/321
2003/0074446	April 2003	Musante et al.	709/224
2003/0084116	May 2003	Musante et al.	709/217
2003/0084198	May 2003	Mandal et al.	709/316
2003/0088713	May 2003	Mandal et al.	709/328
2003/0105840	June 2003	Mandal et al.	709/220

OTHER PUBLICATIONS

Kyeongho et al., "Scheduling of storage and cache servers for replicatied multimedia data", IEEE, pp. 484-487, 1997.*

Bhide et al., "Implicit replication in a network file server", IEEE, pp. 85-90.* Cai et al., A new medium access control for multi-channel Ad Hoc networks; IEEE, pp. 966-971.*

Makpangou et al., "Replicated directory service for weakly consistent distributed caches", ACN, pp1-9.*

Vason P. Srnin, "An architecture for extended abstract data flow", IEEE, pp. 303-325, 1981.

Madan et al., "A distributed real time database for heterogeneous computer controll systems", IEEE, pp. 435-440, 1995.

Pu et al., "Replica control in distributed systems", ACM, pp. 377-386, 1991.

ART-UNIT: 2171

PRIMARY-EXAMINER: Corrielus; Jean M.

ATTY-AGENT-FIRM: Kudirka & Jobse, LLP

ABSTRACT:

A three-tiered data replication management system is used on a distributed computer system connected by a network. The lowest tier comprises management <u>facade software</u> running on each machine that converts a platform-dependent interface written in low-level kernel routines that actually perform the data replication to platform-independent method calls. The middle tier is a set of <u>federated</u> Java beans, which communicate with each other, with the management facades, and with the upper tier of the system. The upper tier of the inventive system comprises presentation programs that can be directly manipulated by management personnel to view and control the system. The <u>federated</u> Java beans can run on any machine in the system

Record List Display Page 8 of 8

and communicate via the network. A data replication bean runs on each host and at least one such bean communicates directly with a management interface that is controlled by a user.

22 Claims, 18 Drawing figures

Full Title Citation Front Review Classification Date Reference Section Section Front Review Classification Date Reference Section Date Reference Date D	Claims KWC Dra
Clear Generate Collection Print Fwd Refs Bkwd	Refs Generate OACS
Term	Documents
API	79964
APIS	7357
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(L4 AND API).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDB	D 11

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Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 20030217195 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 14

File: PGPB

Nov 20, 2003

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030217195

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030217195 A1

TITLE: Method and apparatus for managing host-based data services using CIM

providers

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US Cao, Lanshan Andover MA US Pokigo, Roberta A. Billerica US MA

US-CL-CURRENT: <u>719/330</u>; <u>709/223</u>, 719/321

1	Full	Title	Citation Front	Review Cl	lassification D	ate	Reference	Sequences	Attachments	Claims	KWIC	Drawu De
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File: PGPB

PGPUB-DOCUMENT-NUMBER: 20030204557 PGPUB-FILING-TYPE: new

L4: Entry 2 of 14

DOCUMENT-IDENTIFIER: US 20030204557 A1

TITLE: Method and apparatus for managing remote data replication using CIM

providers in a distributed computer system

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US Cao, Lanshan

Andover

MΑ

US

Pokigo, Roberta A.

Billerica

ΜA

US

US-CL-CURRENT: 709/202; 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
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☐ 3. Document ID: US 20030172088 A1

L4: Entry 3 of 14

File: PGPB

Sep 11, 2003

RULE-47

PGPUB-DOCUMENT-NUMBER: 20030172088

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030172088 A1

TITLE: Method and apparatus for managing a data imaging system using CIM providers

in a distributed computer system

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Mandal, Chhandomay Nashua NH US DaCosta, Jillian I. Nashua NH US Cao, Lanshan Andover MA US France, Jonathan C. Somerville US MA

Du, Yuantai Nashua NH US Pokigo, Roberta A. Billerica MA US

US-CL-CURRENT: <u>707/200</u>

	ull	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
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		4	Docume	nt ID:	US 20	030105840	A 1						

4. Document ID. US 20030103840 A

L4: Entry 4 of 14

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105840

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030105840 A1

TITLE: Method and apparatus for managing configuration information in a distributed

computer system

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Mandal, Chhandomay Nashua NH US

Musante, Mark J. Westford MA US

Wagener, Peter J.

Somerville

MA

US

Pokigo, Roberta A.

Billerica

MΑ

US

US-CL-CURRENT: 709/220; 709/223

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 5. Document ID: US 20030088713 A1

L4: Entry 5 of 14

File: PGPB

May 8, 2003

RULE-47

PGPUB-DOCUMENT-NUMBER: 20030088713

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030088713 A1

TITLE: Method and apparatus for managing data caching in a distributed computer

system

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME
Mandal, Chhandomay
Musante, Mark J.
Wagener, Peter J.
DaCosta, Jillian I.
Pokigo, Roberta A.

CITY STATE
Nashua NH
Westford MA
Somerville MA
Nashua NH

Billerica

Andover

NH US
MA US
MA US

COUNTRY

US

US

US

US-CL-CURRENT: 719/328

Goosey, Melora L.

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, Do

☐ 6. Document ID: US 20030084198 A1

L4: Entry 6 of 14

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084198

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084198 A1

TITLE: Method and apparatus for managing data services in a distributed computer

system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Mandal, Chhandomay

Nashua

NH

US

Musante, Mark J.

Westford

MA

US

Wagener, Peter J. Pokigo, Roberta A. Goosey, Melora L. Somerville Billerica Andover MA MA

MA

US US US

US-CL-CURRENT: 719/316

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw. De

☐ 7. Document ID: US 20030084116 A1

L4: Entry 7 of 14

File: PGPB

May 1, 2003

RULE-47

PGPUB-DOCUMENT-NUMBER: 20030084116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030084116 A1

TITLE: Method and apparatus for discovering data services in a distributed computer

system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Musante, Mark J. Westford MA US Mandal, Chhandomay Nashua NH US Newman, Howard A. US Arlington MA Wagener, Peter J. Somerville ΜA US Goosey, Melora L. Andover US MA Pokigo, Roberta A. Billerica MA US

US-CL-CURRENT: 709/217; 709/201, 709/203

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Draw, De

□ 8. Document ID: US 20030061399 A1

L4: Entry 8 of 14

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061399

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061399 A1

TITLE: Method and apparatus for managing data volumes in a distributed computer

system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Wagener, Peter J.

Somerville

MA

US

Musante, Mark J.	Westford	MA	US
Mandal, Chhandomay	Nashua	NH	US
Goosey, Melora L.	Andover	MA	US
Pokigo, Roberta A.	Billerica	MA	US
Quill, George J.	Clinton	MA	US
Gratzer, Peter L.	Broomfield	CO	US
DaCosta, Jillian I.	Nashua	NH	US
France, Jonathan C.	Somerville	MA	US

US-CL-CURRENT: $\frac{719}{321}$; $\frac{719}{328}$

Full	Title	Citation F	ront	Review Classificatio	n Date	Referer	nce Sequences	Attachments	Claims	KOMO	Draw, De
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L4: E	ntry	9 of 14			F	ile:	PGPB		Mar	27,	2003

PGPUB-DOCUMENT-NUMBER: 20030061366

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061366 A1

TITLE: Method and apparatus for managing data imaging in a distributed computer

system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Musante, Mark J.	Westford	AM	US	
Mandal, Chhandomay	Nashua	NH	US	
Wagener, Peter J.	Somerville	MA	US	
Zhang, Lanshan	Andover	MA	US	
Goosey, Melora L.	Andover	MA	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: <u>709/230; 709/237</u>

Full	Γitle Citatio	n Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
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L4: En	try 10 o	f 14			•	File: P	GPB		Feb	13,	2003

PGPUB-DOCUMENT-NUMBER: 20030033327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030033327 A1

 ${\tt TITLE:}$ Method and apparatus for managing remote data replication in a distributed computer system

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Mandal, Chhandomay Nashua NH US Wagener, Peter J. Somerville MA US Musante, Mark J. Westford US MA DaCosta, Jillian I. Nashua NH US Andover Zhang, Lanshan MA US Pokigo, Roberta A. Billerica MA US

US-CL-CURRENT: 707/204

Full Title Citatio	ew Classification	Date Reference	Sequences	Attachments	Claims KW	AC - Draw, De
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☐ 11. Document ID: US 6772178 B2

L4: Entry 11 of 14

File: USPT

Aug 3, 2004

US-PAT-NO: 6772178

DOCUMENT-IDENTIFIER: US 6772178 B2

TITLE: Method and apparatus for managing remote data replication in a distributed

computer system

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Mandal; Chhandomay Nashua NH Wagener; Peter J. Somerville MA Musante; Mark J. Westford MA DaCosta; Jillian I. Nashua NH Zhang; Lanshan Andover MA Pokigo; Roberta A. Billerica MA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Sun Microsystems, Inc. Santa Clara CA 02

APPL-NO: 09/ 917145 [PALM]
DATE FILED: July 27, 2001

INT-CL: [07] G06 F 17/00

US-CL-ISSUED: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223 US-CL-CURRENT: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223

FIELD-OF-SEARCH: 707/10, 707/200, 707/204, 709/226, 709/201, 709/203, 709/217,

709/220, 709/223, 709/316, 711/162, 711/203, 714/5

Record List Display Page 7 of 11

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
6002085	December 1999	Utsumi et al.	174/28
6058401	May 2000	Stamos et al.	707/201
6453326	September 2002	Parham et al.	707/204
6571232	May 2003	Goldberg et al.	707/2
6625613	September 2003	Thompson	707/102
2003/0014432	January 2003	Teloh et al.	707/204
2003/0014433	January 2003	Teloh et al.	707/204
2003/0014523	January 2003	Teloh et al.	709/226
2003/0033327	February 2003	Mandal et al.	707/204
2003/0061399	March 2003	Wagener et al.	709/321
2003/0074446	April 2003	Musante et al.	709/224
2003/0084116	May 2003	Musante et al.	709/217
2003/0084198	May 2003	Mandal et al.	709/316
2003/0088713	May 2003	Mandal et al.	709/328
2003/0105840	June 2003	Mandal et al.	709/220

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Kyeongho et al., "Scheduling of storage and cache servers for replicatied multimedia data", IEEE, pp. 484-487, 1997.*

Bhide et al., "Implicit replication in a network file server", IEEE, pp. 85-90.* Cai et al., A new medium access control for multi-channel Ad Hoc networks; IEEE, pp. 966-971.*

Makpangou et al., "Replicated directory service for weakly consistent distributed caches", ACN, pp1-9.*

Vason P. Srnin, "An architecture for extended abstract data flow", IEEE, pp. 303-325, 1981.

Madan et al., "A distributed real time database for heterogeneous computer controll systems", IEEE, pp. 435-440, 1995.

Pu et al., "Replica control in distributed systems", ACM, pp. 377-386, 1991.

ART-UNIT: 2171

PRIMARY-EXAMINER: Corrielus; Jean M.

ATTY-AGENT-FIRM: Kudirka & Jobse, LLP

ABSTRACT:

A three-tiered data replication management system is used on a distributed computer system connected by a network. The lowest tier comprises management <u>facade software</u> running on each machine that converts a platform-dependent interface written in low-level kernel routines that actually perform the data replication to platform-independent method calls. The middle tier is a set of <u>federated</u> Java beans, which communicate with each other, with the management facades, and with the upper tier of the system. The upper tier of the inventive system comprises presentation programs that can be directly manipulated by management personnel to view and control the system. The <u>federated</u> Java beans can run on any machine in the system

Record List Display Page 8 of 11

and communicate via the network. A data replication bean runs on each host and at least one such bean communicates directly with a management interface that is controlled by a user.

22 Claims, 18 Drawing figures

Full Title Citation Front Review Classification Date Reference

☐ 12. Document ID: US 20030217195 A1

L4: Entry 12 of 14

File: DWPI

Nov 20, 2003

DERWENT-ACC-NO: 2004-021910

DERWENT-WEEK: 200402

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TITLE: Data service managing method for distributed computer system, involves running management <u>facade software</u> having common information model client in server to control provider, and federated bean

INVENTOR: CAO, L; DACOSTA, J I ; MANDAL, C ; POKIGO, R A

PRIORITY-DATA: 2002US-0147275 (May 16, 2002)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 US 20030217195 A1
 November 20, 2003
 025
 G06F009/46

INT-CL (IPC): $\underline{G06} + \underline{9/46}$

ABSTRACTED-PUB-NO: US20030217195A

BASIC-ABSTRACT:

NOVELTY - The method involves running a common information model (CIM) provider (718) in a host computer system to organize a driver software for data service. A management <u>facade software</u> with a CIM client is run in a server to control the provider. A <u>federated</u> bean generates method calls to the software. Data service commands from a management terminal are provided to the bean to control the provider to organize the service.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) an apparatus for managing a data service in a distributed computer system
- (b) a computer program product for managing a data service in a distributed computer system.

USE - Used for managing a data service in a distributed computer system.

ADVANTAGE - The server management <u>facade software</u> controls the CIM provider so as to eliminate the log in of the provider into each host system.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram demonstrating the illustration of a simple data replication system using the principles of a data service managing method.

Record List Display

Page 9 of 11

Management server system 702

Webserver 704

Federated beans 706

Management facade 708

CIM provider 718

Full Title Citation Front Review Classification Date Reference (Classification Date Reference)

☐ 13. Document ID: US 20030204557 A1

L4: Entry 13 of 14

File: DWPI

Oct 30, 2003

DERWENT-ACC-NO: 2003-900773

DERWENT-WEEK: 200382

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TITLE: Remote data replication management method in distributed computer system, involves running <u>federated</u> bean in management server to control common information model providers

INVENTOR: CAO, L; DACOSTA, J I ; MANDAL, C ; POKIGO, R A

PRIORITY-DATA: 2002US-0134711 (April 29, 2002)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 20030204557 A1

October 30, 2003

035

G06F017/30

INT-CL (IPC): G06 F 12/00; G06 F 15/16; G06 F 17/30

ABSTRACTED-PUB-NO: US20030204557A

BASIC-ABSTRACT:

NOVELTY - A management <u>facade software</u> running in management server, includes a common information model (CIM) client (424), for controlling CIM providers of CIM objects running in respective host devices (406). A <u>federated</u> bean running in server, controls the CIM providers, to configure storage devices for data replications, based on data replication commands from management terminal.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) apparatus for managing remote data replication;
- (2) remote data replication management program; and
- (3) computer data signal for managing remote data replication.

USE - For managing remote data replication in distributed computer system.

ADVANTAGE - The storage devices for data replication are easily configured by controlling the CIM providers.

Record List Display

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the data replication system.

logic tier 402

host device 406

CIM client 424

data replication graphical user interface 446

proxy 448

Full Title	Citation Front Revi	ew Classification	Date Reference	e <u> </u>	Claims KNMC	Draw, De
***************************************	***************************************			***************************************	******************************	***************************************
□ 14.	Document ID: U	JS 2003008419	8 A1			
L4: Entry	14 of 14		File:	DWPI	May 1,	2003

DERWENT-ACC-NO: 2003-606081

DERWENT-WEEK: 200357

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TITLE: Data service management method for distributed computer system, involves controlling data passing between driver software and database and retrieving data service attributes, by management facades using proxy for Java bean

INVENTOR: GOOSEY, M L; MANDAL, C; MUSANTE, M J; POKIGO, R A; WAGENER, P J

PRIORITY-DATA: 2001US-0021471 (October 30, 2001)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES MAIN-IPC

US 20030084198 A1

May 1, 2003

023 G06F009/46

INT-CL (IPC): G06 F 9/46

ABSTRACTED-PUB-NO: US20030084198A

BASIC-ABSTRACT:

NOVELTY - Management facade software is executed in host (200) to control data passing between driver software and database, and to retrieve data service attributes. Each federated Java bean (230,234) is executed to generate commands to management facades (240,244). Lookup service is used to obtain proxy to each Java bean. Data is controlled and attributes are retrieved by management facades using proxy, in response to commands.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) data service managing apparatus; and
- (2) computer program product for managing data service.

USE - For managing data services such as replication, mirroring, scheduling, logging, transaction, control and data snapshots in distributed computer system Record List Display

Page 11 of 11

connected to Internet.

ADVANTAGE - By providing the management facades, the data services can be managed from a single location.

 $\label{eq:decomposition} \mbox{DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the data service management system.}$

host 200

federated Java beans 230,234

management facades 240,244

Full Title Citation Front Review Classification Date Reference	Claims KMC Draw.
Clear Generate Collection Print Fwd Refs Bkwd R	efs Generate OACS
Term	Documents
FEDERATED	787
FEDERATEDS	0
(1 AND FEDERATED).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD	14
(L1 AND (FEDERATED)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDI	BD. 14

<u>Previous Page</u> <u>Next Page</u> <u>Go to Doc#</u>